



## Material - PN 1.5532

### Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - PN 1.5532 Mild Steel Alloys Bar and Rod

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Bar and Rod

Chemical Composition			Heat Treatment	
Carbon	C %	0.360 - 0.420	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	1.150 - 1.450		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0008 - 0.0050		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	850 - 1250
-	-	-	Yield Strength in Mpa	700 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	50 min.
-	-	-	Hardness in HRC	45 max.
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
38MnB5	EN	European Union	Bar and Rod
1.5532	EN	European Union	Bar and Rod
38 MB 5	AFNOR NF	France	Bar, Wire and Rod
39MnB5	ISO	International	Bar and Rod
1.5532	NBN	Belgium	Bar and Rod
38 MB 5	NBN	Belgium	Bar and Rod
38 MB 5	PN	Poland	Bar and Rod

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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